

Form PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
60388-A-PCT-
US/JPW/GJG/JBCSerial No.
09/709,103INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)Applicants:
Mary Cismowski and Emir DuzicFiling Date
November 8, 2000

Group

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Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if appropriate
	4 6 1 3 5 7 2	9/23/86	MacKay et al. (Exhibit 1);			
	4 7 3 6 8 6 6	4/12/88	Leder et al. (Exhibit 2);			
	4 8 7 0 0 0 9	9/26/89	Evans et al. (Exhibit 3);			
	4 8 7 3 1 9 1	10/10/89	Wagner et al. (Exhibit 4);			
	4 8 7 3 3 1 6	10/10/89	Meade et al. (Exhibit 5);			
	4 9 8 7 0 7 1	1/22/91	Cech et al. (Exhibit 6);			
	5 0 9 6 8 1 5	3/17/92	Ladner et al. (Exhibit 7);			
	5 1 1 6 7 4 2	5/26/92	Cech et al. (Exhibit 8);			
	5 2 2 3 4 0 9	6/29/93	Ladner et al. (Exhibit 9);			
	5 2 7 0 1 8 1	12/14/93	McCoy et al. (Exhibit 10);			
	5 2 8 3 3 1 7	2/1/94	Saifer et al. (Exhibit 11);			
	5 4 8 2 8 3 5	1/9/96	King et al. (Exhibit 12);			

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	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
	WO 9 0 1 1 3 5 4	10/4/90	PCT (Exhibit 13);				
	WO 9 1 0 1 1 4 0	2/7/91	PCT (Exhibit 14);				
	WO 9 3 0 4 1 6 9	3/4/93	PCT (Exhibit 15);				
	WO 9 4 1 0 3 0 0	5/11/94	PCT (Exhibit 16);				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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Applicants: Mary Cismowski, et al.
Serial No.: 09/709,103
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Exhibit A

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	WO 9 4 1 3 8 0 2	6/23/94	PCT (Exhibit 17);				
	WO 9 4 2 3 0 2 5	10/13/94	PCT (Exhibit 18);				
	WO 9 9 1 8 2 1 1	4/15/99	PCT (Exhibit 19);				
	EP 0 2 6 4 1 6 6	4/9/87	EPO (Exhibit 20);				

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	Alton and Vapnek, (1979) "Nucleotide Sequence Analysis of The Chloramphenicol Resistance Transposon Tn9", <u>Nature</u> 282: 864-869 (Exhibit 21);
	Amann et al., (1988) "Tightly Regulated Tac Promoter Vectors Useful For The Expression of Unfused and Fused Proteins In Escherichia Coli", <u>Gene</u> 69:301-315 (Exhibit 22);
	Appeltauer and Achstetter, (1989) "Hormone-induced Expression of The CHS1 Gene From Saccharomyces cerevisiae", <u>European Journal of Biochemistry</u> 181:243-247 (Exhibit 23);
	Arkin and Youvan, (1992) "An Algorithm For Protein Engineering: Simulations of Recursive Ensemble Mutagenesis", <u>Proceedings of The Natural Academy of Sciences</u> 89:7811-7815 (Exhibit 24);
	Baldari, et al., (1987) "A Novel Leader Peptide Which Allows Efficient Secretion of a Fragment of Human Interleukin 1 β in Saccharomyces cerevisiae", <u>The EMBO Journal</u> 6:229-234 (Exhibit 25);
	Banerji, J. et al., (1983) "A Lymphocyte-Specific Cellular Enhancer Is Located Downstream of the Joining Region in Immunoglobulin Heavy Chain Genes", <u>Cell</u> 33:729-740 (Exhibit 26);

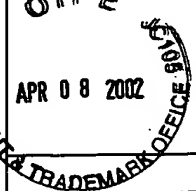
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		Barbas et al., (1992) "Semisynthetic Combinatorial Antibody Libraries: A Chemical Solution to the Diversity Problem", <u>Proceedings of The National Academy Sciences</u> 89:4457-4461 (Exhibit 27);								
		Bardwell et al., (1994) "Signal Propagation and Regulation in the Mating Pheromone Response Pathway of the Yeast <i>Saccharomyces cerevisiae</i> ", <u>Developmental Biology</u> 166:363-379 (Exhibit 28)								
		Bartel et al., (1993) "Elimination of False Positives That Arise in Using the Two-Hybrid System", <u>Biotechniques</u> , 14: 920-924 (Exhibit 29);								
		Bartel, D.P. and Szostak, J.W., (1993) "Isolation of New Ribozymes from a Large Pool of Random Sequences", <u>Science</u> 261:1411-1418 (Exhibit 30);								
		Berman and Gilman, (1998) "Mammalian RGS Proteins: Barbarians at The Gate", <u>The Journal of Biological Chemistry</u> 273: 1269-1272 (Exhibit 31);								
		Bourne et al., (1991) "The GTPase superfamily: Conserved Structure and Molecular Mechanism", <u>Nature</u> 349: 117-127 (Exhibit 32);								
		Bradley, A., (1987) "Production And Analysis of Chimaeric Mice", <u>Teratocarcinomas and Embryonic Stem Cells: A Practical Approach</u> pp. 113-151 (Exhibit 33);								
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		Bradley, A., (1991) "Modifying the Mammalian Genome by Gene Targeting", <u>Current Opinion in Biotechnology</u> 2:823-829 (Exhibit 34);							
		Byrne and Ruddell, (1989) "Multiplex Gene Regulation: A Two-tiered Approach to Transgene Regulation in Transgenic Mice", <u>Proceedings of The National Academy of Sciences</u> 86:5473-5477 (Exhibit 35);							
		Calame and Eaton, (1988) "Transcriptional Controlling Elements in the Immunoglobulin and T Cell Receptor Loci", <u>Advances in Immunology</u> 43:235-275 (Exhibit 36);							
		Camper and Tilghman, (1989) "Postnatal Repression of the α -fetoprotein Gene Is Enhancer Independent", <u>Genes and Development</u> 3:537-546 (Exhibit 37);							
		Chen et al., (1997) "Characterization of a Novel Mammalian RGS Protein That Binds to G α Proteins and Inhibits Pheromone Signaling in Yeast", <u>The Journal of Biological Chemistry</u> 272: 8679-8685 (Exhibit 38);							
		Chirgwin et al., (1979) "Isolation of Biologically Active Ribonucleic Acid from Sources Enriched in Ribonuclease", <u>Biochemistry</u> 18: 5294-5299 (Exhibit 39);							
		Cismowski et al., (1998) "A Yeast-based Approach to Functional Cloning of Novel Mammalian Proteins in the G-protein Signaling Pathway", <u>Archives of Pharmacology</u> 358: R655, (Abstract only) (Exhibit 40);							
		Clackson et al., (1991) "Making Antibody Fragments Using Phage Display Libraries", <u>Nature</u> 352:624-628 (Exhibit 41);							
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	Cull et al., (1992) "Screening for Receptor Ligands Using Large Libraries of Peptides Linked to the C Terminus of the <i>Lac</i> Repressor", <u>Proceedings of the National Academy of Sciences</u> 89: 1865-1869 (Exhibit 42);
	Cwirla et al., (1990) "Peptides on Phage: A Vast Library of Peptides for Identifying Ligands", <u>Proceedings of the National Academy of Sciences</u> 87: 6378-6382 (Exhibit 43);
	Daunt et al., (1997) "Subtype-Specific Intracellular Trafficking of $\alpha 2$ -Andrennergic Receptors", <u>Molecular Pharmacology</u> 51: 711-720 (Exhibit 44);
	Delagrave et al., (1993) "Recursive Ensemble Mutagenesis" <u>Protein Engineering</u> 6(3):327-331 (Exhibit 45);
	Del Villar, K. et al., (1996) "C-terminal Motifs Found in Ras-superfamily G-proteins: CAAX and C-seven Motifs, <u>Biochemical Society Transactions</u> 24: 709-713 (Exhibit 46);
	DeWet et al., (1987) "Firefly Luciferase Gene: Structure and Expression in Mammalian Cells", <u>Molecular and Cellular Biology</u> 7: 725-737 (Exhibit 47);

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	Haseloff and Gerlach, (1988) "Simple RNA Enzymes with New and Highly Specific Endoribonuclease Activities", <u>Nature</u> 334:585-591 (Exhibit 55);
	Helene, C., (1991) "The Anti-gene Strategy: Control of Gene Expression by Triplex-forming-oligonucleotides", <u>Anticancer Drug Design</u> 6(6):569-584 (Exhibit 56);
	Helene, C. et al., (1992) "Control of Gene Expression by Triple Helix-Forming Oligonucleotides", <u>Annals of the New York Academy Sciences</u> 660:27-36 (Exhibit 57);
	Houghten et al., (1992) "The Use of Synthetic Peptide Combinatorial Libraries for the Identification of Bioactive Peptides", <u>Biotechniques</u> 13: 412-421 (Exhibit 58);
	Inoue et al., (1987) "Synthesis and Hybridization Studies on Two Complementary Nona(2'-O-methyl)Ribonucleotides", <u>Nucleic Acids Research</u> 15:6131-6148 (Exhibit 59);
	Inoue et al., (1987) "Sequence-dependent Hydrolysis of RNA Using Modified Oligonucleotide Splints and RNase H", <u>FEBS Letters</u> 215:327-330 (Exhibit 60);
	Iwabuchi et al., (1993) "Use of the Two-hybrid System to Identify the Domain of P53 Involved in Oligomerization", <u>Oncogene</u> 8: 1693-1696 (Exhibit 61);

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	Kang et al., (1990) "Effects of Expression of Mammalian Gα and Hybrid Mammalian-Yeast Gα Proteins on the Yeast Pheromone Response Signal Transduction Pathway", <u>Molecular and Cellular Biology</u> 10: 2582-2590 (Exhibit 62);
	Kaufman et al., (1987) "Translational Efficiency of Polycistronic mRNAs and Their Utilization to Express Heterologous Genes in Mammalian Cells", <u>The EMBO Journal</u> 6:187-193 (Exhibit 63);
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	Kessel and Gruss, (1990) "Murine Developmental Control Genes", <u>Science</u> 249:374-379 (Exhibit 65);
	Kurjan, (1993) "The Pheromone Response Pathway In <i>Saccharomyces cerevisiae</i> " <u>Annual Review of Genetics</u> 27:147-179 (Exhibit 66);
	Kurjan and Herskowitz, (1982) "Structure of a Yeast Pheromone Gene (MFα): A Putative α-Factor Precursor Contains Four Tandem Copies of Mature α-Factor", <u>Cell</u> 30:933-943 (Exhibit 67);
	[Note: Exhibit 68 left blank to preserve numbering and order sequence of references.];

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	Lam et al., (1991) "A New Type of Synthetic Peptide Library for Identifying Ligand-binding Activity", <u>Nature</u> 354: 82-84 (Exhibit 69);
	Lam, Kit S., (1997) "Application of Combinatorial Library Methods in Cancer Research and Drug Discovery", <u>Anticancer Drug Design</u> 12: 145-167 (Exhibit 70);
	Lee, E. et al., (1992) "The G226A Mutant of G _{sa} Highlights the Requirement for Dissociation of G Protein Subunits", <u>The Journal of Biological Chemistry</u> 267: 1212-1218 (Exhibit 71);
	Li, E. et al., (1992) "Targeted Mutation of the DNA Methyltransferase Gene Results in Embryonic Lethality", <u>Cell</u> 69:915-926 (Exhibit 72);
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	Logan, J. et al., (1995) "Cationic Lipids For Reporter Gene and CFTR Transfer to Rat Pulmonary Epithelium", <u>Gene Therapy</u> , 2:38-49 (Exhibit 74);

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	Luckow and Summers, (1989) "High Level Expression of Nonfused Foreign Genes with <i>Autographa californica</i> Nuclear Polyhedrosis Virus Expression Vectors", <u>Virology</u> 170:31-39 (Exhibit 75);
	Madura et al., (1993) "N-recognin/Ubc2 Interactions in the N-end Rule Pathway", <u>The Journal of Biological Chemistry</u> 268:12046-12054 (Exhibit 76);
	Magee and Newman, (1992) "The Role of Lipid Anchors for Small G Proteins in Membrane Trafficking", <u>Trends in Cell Biology</u> 2: 318-323 (Exhibit 77);
	Maher, L.J., (1992) "DNA Triple-Helix Formation: An Approach to Artificial Gene Repressors?", <u>BioEssays</u> 14(12):807-815 (Exhibit 78);
	Marks et al., (1992) "Molecular Evolution of Proteins on Filamentous Phage", <u>The Journal of Biological Chemistry</u> 267: 16007-16010 (Exhibit 79);
	Marra et al., (1998) "The WashU-HHMI Mouse EST Project", <u>EMEST</u> 3: Gen Bank Accession No. AA790463, (Exhibit 80);
	Neer, E. J., (1995) "Heterotrimeric G Proteins: Organizers of Transmembrane Signals", <u>Cell</u> 80:249-257 (Exhibit 81);

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	Nobes et al., (1998) "A New Member of the Rho Family, Rnd1, Promotes Disassembly of Actin Filament Structures and Loss of Cell Adhesion", <u>The Journal of Cell Biology</u> 141: 187-197 (Exhibit 82);
	Odagaki et al., (1998) "Receptor-mediated and Receptor-independent Activation of G-proteins in Rat Brain Membranes" <u>Life Sciences</u> 62: 1537-1541 (Exhibit 83);
	O'Gorman et al., (1991) "Recombinase-Mediated Gene Activation and Site-Specific Integration in Mammalian Cells", <u>Science</u> 251:1351-1355 (Exhibit 84);
	Okamoto et al., (1995) "Ligand-dependent G Protein Coupling Function of Amyloid Transmembrane Precursor" <u>The Journal of Biological Chemistry</u> 270: 4205-4208 (Exhibit 85);
	Pinkert et al., (1987) "An Albumin Enhancer Located 10 kb Upstream Functions Along With Its Promoter to Direct Efficient, Liver-specific Expression in Transgenic Mice", <u>Genes and Development</u> 1:268-276 (Exhibit 86);
	Queen and Baltimore, (1983) "Immunoglobulin Gene Transcription Is Activated by Downstream Sequence Elements", <u>Cell</u> 33:741-748 (Exhibit 87);

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	Sheng et al., (1990) "The Regulation and Function of c-fos and Other Immediate Early Genes in the Nervous System", <u>Neuron</u> 4: 477-485 (Exhibit 94);
	Sikorski and Hieter, (1989) "A System of Shuttle Vectors and Yeast Host Strains Designed for Efficient Manipulation of DNA in <i>Saccharomyces cerevisiae</i> ", <u>Genetics</u> 122:19-27 (Exhibit 95);
	Simon et al., (1991) "Diversity of G Proteins in Signal Transduction", <u>Science</u> 252: 802-808 (Exhibit 96);
	Simonsen et al., (1994) "Cloning by Function: Expression Cloning in Mammalian Cells", <u>Trends Pharmacol. Sci.</u> 15: 437-441 (Exhibit 97);
	Smith et al., (1983) "Production of Human Beta Interferon in Insect Cells Infected with a Baculovirus Expression Vector", <u>Mol. Cell Biol.</u> 3:2156-2165 (Exhibit 98);
	Smith, D.B. and Johnson, K.S., (1988) "Single-step Purification of Poypeptides Expressed in <i>Escherichia Coli</i> as Fusions with Glutathione S-transferase" <u>Gene</u> 67:31-40 (Exhibit 99);

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		Thomas, K.R. and Capecchi, M. R., (1987) "Site-Directed Mutagenesis by Gene Targeting in Mouse Embryo-Derived Stem Cells", <u>Cell</u> 51:503-512 (Exhibit 105);						
		Toh et al., (1989) "Isolation and Characterization of a Rat Liver Alkaline Phosphatase Gene", <u>European Journal of Biochemistry</u> 182: 231-237 (Exhibit 106);						
		Valencia et al., (1991) "The ras Protein Family: Evolutionary Tree and Role of Conserved Amino Acids", <u>Biochemistry</u> 30: 4637-4648 (Exhibit 107);						
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		Whitney et al., (1998) "A Genome-wide Functional Assay of Signal Transduction in Living Mammalian Cells", <u>Nature Biotechnology</u> 16: 1329-1333 (Exhibit 109);						
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<p>*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>								

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INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				Applicants: Maru Cismowski and Emir Duzic			
				Filing Date November 8, 2000		Group	
U.S. PATENT DOCUMENTS							
Examiner Initial	Filing Date if Appropriate						
	Document Number						
	5	6	5	4	1	4	5
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